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Attention: Mr. Warren M. Check

**URGENT**

February 13, 2009

**VIA FACSIMILE**  
(Total Page: 6)

Your Ref: 2006-0369A

Our Ref: 546833

U.S. Patent Application No. 10/572,639

Applicants: Yoshitaka TOMIGAHARA et al.

Dear Mr. Check:

Thank you for your letter of February 11, 2009 concerning the Examiner's request.

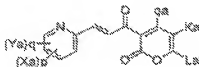
We would like to offer the following comments.

1) Ring A

The applicants' preference is, first, benzene, and then pyridine.

2) Location of N in pyridine ring

Please refer the following formula. The location shown in the formula is preferred.



3) Preference of a substituent for each Xa, Ya, La, Ka and qa

Please refer to the attached sheet. The order of preference is shown by the symbols ①, ②, ③, ....

4) Order of importance of Xa, Ya, La, Ka and qa

The order is Xa &gt; qa &gt; La &gt; Ka &gt; Ya. That is, first is Xa, next is qa, ....

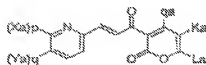
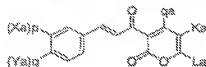
To: WENDEROTH, LIND &amp; PONACK, L.L.P.

February 13, 2009

Page 2 of 2

5) Point of attachment of X and Y on the ring

Please refer to the following formulas.

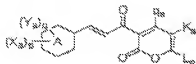


Please respond to the Examiner.

Kindly acknowledge receipt of this letter.Sincerely yours,  
AOYAMA & PARTNERS  
Mitsuo TANAKAMT/me  
Encl.

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4. (Original) A cinnamoyl compound represented by the formula (IV):



(IV)

wherein

A represents a ①benzene ring or a ②pyridine ring,  
 $X_n$  is a substituent on a carbon atom, and represents  
 ①a C1-C10 alkyl group substituted with a cyano group; ②a  
 C1-C10 alkyl group substituted with a tetrahydropyran-4-  
 ylidene group; ③a C2-C10 alkenyl group substituted with a  
 halogen atom or a cyano group; ④a C2-C10 alkenyl group  
 substituted with a C1-C10 alkoxy-carbonyl group; ⑤a C3-C10  
 alkynyl group substituted with a hydroxyl group; ⑥an  $a_2$ - $r_1$ -  
 $b$ - $r_1$ - group (wherein  $a_2$  represents a methyl group  
 substituted with a C1-C10 alkylthio group, a methyl group  
 substituted with a C1-C10 alkylsulfinyl group, a methyl  
 group substituted with a C1-C10 alkylsulfonyl group, a C2-  
 C10 alkenyl group, a C2-C10 alkynyl group, a  $r_2$ O-CO- group  
 (wherein  $r_2$  represents a C1-C10 alkyl group, or a C2-C10  
 alkyl group substituted with a hydroxyl group), a carboxyl  
 group, a  $r_1$ -N-CO- group (wherein  $r$  and  $r'$  are the same or  
 different, and represent a hydrogen atom or a C1-C10 alkyl  
 group), an  $a_1$ -NH-CO- group (wherein  $a_1$  represents a C2-C10

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alkyl group substituted with a C1-C10 alkoxy group), an  $a_1'$ -CO- group (wherein  $a_1'$  represents a morpholino group), a  $xr'$ -N-CH<sub>2</sub>- group (wherein  $x$  and  $x'$  are as defined above), a  $r_0$ -(O)<sub>1</sub>-CONH-CH<sub>2</sub>- group (wherein  $r_0$  represents a C1-C10 alkyl group, and 1 represents 0 or 1), a  $x$ -OCH<sub>2</sub>- group (wherein  $x$  is as defined above), a  $x_2$ -CO- group (wherein  $x_2$  is as defined above), a cyano group, or a sulfomethyl group,  $r_1$  represents a C1-C10 alkylene group,  $r_1'$  represents a single bond or a C1-C10 alkylene group, and  $b$  represents an oxy group, a thio group, a sulfiaryl group, a sulfonyl group or a imino group); (D) an  $a_2$ -y-CO-NH- group (wherein  $a_2$  represents a C2-C10 alkyl group substituted with a C1-C10 alkoxy group, and  $y$  represents an oxy group or an imino group); (E) a  $r_0$ -COCO-NH- group (wherein  $r_0$  is as defined above); (F) an  $a_3$ -x-NH- group (wherein  $a_3$  represents a C2-C10 alkenyl group, or a C1-C10 alkyl group substituted with a C1-C10 alkoxy group, a C1-C10 alkoxycarbonyl group, a carboxy group or a cyano group, and  $x$  represents a carbonyl group or a sulfonyl group); (G) an  $a_4$ -NHCO- group (wherein  $a_4$  represents a C1-C10 alkoxy group, or a C3-C10 alkenyloxy group, or a  $r_2$ -SO<sub>2</sub>- group (wherein  $r_2$  is as defined above), or a C2-C10 alkyl group substituted with a hydroxyl group or a C1-C10 alkoxy group, or a C1-C10 alkyl group substituted with a  $r_0$ -CO- group (wherein  $r_0$  is as defined above), a cyano group or an aminocarbonyl group, or a  $r_0$ -

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CO-( $r_0$ -COCH<sub>3</sub>)CH- group (wherein  $r$  is as defined above)); ④ an  $a_2$ -NHSO<sub>2</sub>- group (wherein  $a_2$  represents a C2-C10 alkyl group substituted with a C1-C10 alkoxy group); ⑤a  $r_0$ ON=CH- group (wherein  $r_0$  is as defined above); ⑥a  $r_0$ NHCSNH- group (wherein  $r_0$  is as defined above); ⑦a  $r_0$ NWC(-SR<sub>0</sub>')=N- group (wherein  $r_0$  is as defined above,  $r_0'$  is the same as the different from  $r_0$  and has the same meaning as  $r_0$  has); or ⑧ a ( $r_0$ O)<sub>2</sub>P(=O)CH<sub>2</sub>- group (wherein  $r_0$  is as defined above);  $p$  represents 1, 2 or 3, and when  $p$  is 2 or more,  $X_{p,s}$  are the same or different;

$Y_a$  represents ①a halogen atom, ②a nitro group, ③a  $r_1$ CO-NH- group (wherein  $r_1$  is as defined above), ④a C1-C10 alkyl group or ⑤a C1-C10 alkoxy group;

$q$  represents 0, 1 or 2, and when  $q$  is 2 or more,  $Y_{q,s}$  are the same or different;

$q_a$  represents ①a  $r_a$ -O- group (wherein  $r_a$  represents a hydrogen atom, a C1-C10 alkyl group, a C3-C10 alkenyl group, a C3-C10 alkynyl group, a C1-C10 alkyl group substituted with a  $r_1$  $r_1'$ -N-CH<sub>2</sub>- group (wherein  $r_1$  and  $r_1'$  are as defined above), a  $r$ OCH<sub>2</sub>- group (wherein  $r$  is as defined above), a  $r_0$ -CO- group (wherein  $r_0$  is as defined above), a C1-C10 alkoxy-carbonyl group, a carboxy group, an aminocarbonyl group or a cyano group, or a  $r_1$ - $r_1$ -group (wherein  $r_1$  represents a phenyl group or a pyridyl group, and  $r_1$  is as defined above)); ②a piperidino group; ③a morpholino

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group; or  $\text{Q}_a \text{R}_1\text{R}_2\text{N}$  group (wherein  $\text{R}_1$  and  $\text{R}_2$  are the same or different, and represent a hydrogen atom, a C1-C10 alkyl group, a C3-C10 alkenyl group, a C3-C10 alkynyl group, or a C2-C10 alkyl group substituted with a C1-C10 alkoxy group, provided that  $\text{R}_1$  and  $\text{R}_2$  are not a hydrogen atom at the same time);

$\text{K}_a$  represents ①a hydrogen atom, ②a halogen atom or ③a C1-C10 alkyl group, and  $\text{L}_a$  represents ①a hydrogen atom or ②a C1-C10 alkyl group; or

$\text{K}_a$  and  $\text{L}_a$  together may form a ②C1-C10 alkylene group or a ①1,3-butadienylene group.

the term "as defined above" used for the same symbols among plural substituents means that the plural substituents independently represent the same meaning as that described above and, among the plural substituents, although the selection range of substituents to be selected is the same, selected substituents may be the same or different as long as they are selected within the range.

\* \* \* COMMUNICATION RESULT REPORT ( FEB 13 2009 9:40AM ) \* \* \*

TRANSMITTED/STORED : FEB 13 2009 9:40AM

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URGENT

February 13, 2009

VIA FACSIMILE  
(Total Page: 5)

Your Ref: 2006-0559A

Our Ref: 848828

U.S. Patent Application No. 10/572,639

Applicant: Yoshitaka TOMURAKAWA et al.

Dear Mr. Cheek:

Thank you for your letter of February 12, 2009 concerning the above-entitled request.

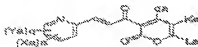
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